



Electro-Voice®
a gulton company

Model 600EL/600EH Hand-Held Microphone

SPECIFICATIONS

Element:

Dynamic

Frequency Response:

100–7000 Hz

Polar Pattern:

Omnidirectional

Output Level,

600EL (150 ohms):

–55 dB

(0 dB = 1 mW/10 dynes/cm²)

600EH (Hi-Z):

–55 dB

(0 dB = 1 volt/dyne/cm²)

EIA Sensitivity Rating,

600EL (150 ohms):

–148 dB

600EH (Hi-Z):

–151 dB

Diaphragm:

Electro-Voice Acoustalloy®

Case Material:

High-impact Cyclocac

Finish:

Gray leather grain

Dimensions:

98.4 mm (3.88 in.) high

68.2 mm (2.69 in.) wide

45.2 mm (1.78 in.) deep

Net Weight:

283.5 g (10 ounces), with cable

Switch,

High-impedance:

On-off, positive detent action provides contacts for operation of external relay. Microphone circuit is unswitched. (see Schematic, Figure 2)

Low-impedance:

As above, except microphone is "short circuited" in "off". (Note: Line to amplifier open when switch is off) (see Figure 3)

Impedance Must Be Specified,

600EL:

150 ohms

600EH:

Hi-Z

Cable,

600EL (150 ohms):

4-conductor, (2 shielded), rubber-jacketed, black coiled cord extendible to 1.8 m (6 ft)

600EH (Hi-Z):

3-conductor, (1 shielded), rubber-jacketed, black coiled cord extendible to 1.8 m (6 ft)

Accessories Supplied:

Panel mounting bracket

DESCRIPTION

The Model 600E is a handheld dynamic microphone, designed for high articulation speech transmission under normal ambient noise conditions. The smooth frequency response, high output level, and great stability of performance through wide extremes of temperature

and humidity make the 600E an excellent choice for communications applications. Typical uses include amateur, police, and marine communication, mobile public address and paging.

The dynamic transducer element utilizes the Electro-Voice exclusive non-metallic Acoustalloy® diaphragm for smooth, stable response unaltered by extremes of environmental conditions. The high-impact molded plastic case, styled for convenience and comfort in handheld use, provides excellent protection against rough usage.

The carefully designed switch assembly combines spring return for definite value of actuating pressure and positive detent, with a high reliability (life tested past 250,000 cycles) leaf switch for long trouble-free service. The Model 600EH high impedance is shipped as shown in Figure 2 with unswitched transducer (for VOX operation). The Model 600EL low impedance is shipped as in Figure 3 with transducer shorted in "off" position. (Note: In this configuration, microphone line to amplifier is not shorted.) This configuration is especially desirable for multiple microphone installations where more than one 600E may be connected to one microphone line. For added convenience the 600E is supplied with panel mounting bracket and 1-foot coiled cord, extendible to 6 feet.

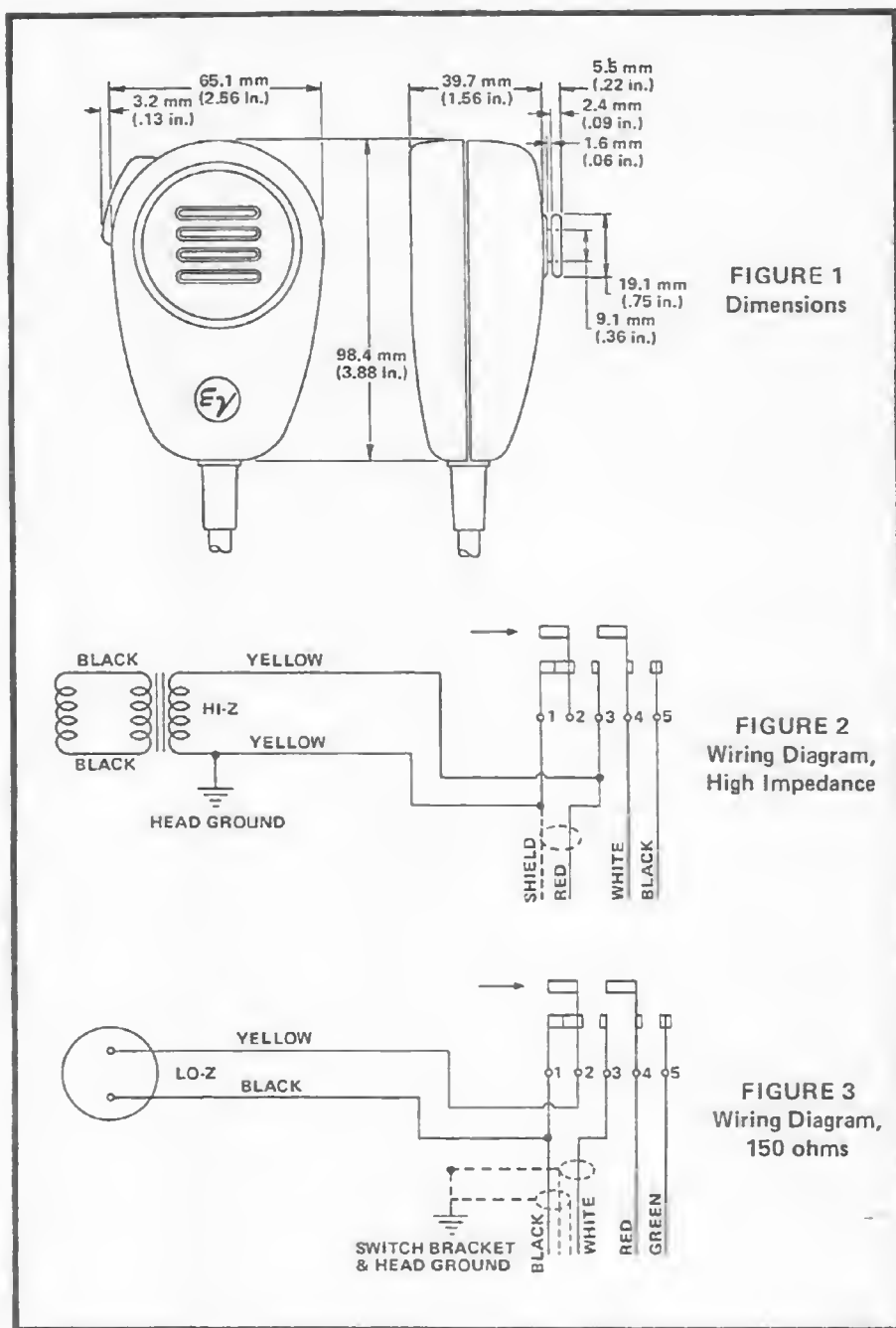


FIGURE 1
Dimensions

FIGURE 2
Wiring Diagram,
High Impedance

FIGURE 3
Wiring Diagram,
150 ohms

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The microphone shall be a dynamic omnidirectional handheld type with uniform frequency response from 100 to 7000 Hz. The diaphragm shall be non-metallic Acoustalloy. The case shall be molded of high impact plastic with gray leather grained finish. A panel mounting bracket shall be supplied. The microphone shall have a net weight of 283.5 g (10 ounces), including cable.

(For high impedance, insert the following:) The microphone shall have a

nominal impedance value of 25,000 ohms. Output level shall be -55 dB (0 dB = 1 volt/dyne/cm²). EIA sensitivity rating shall be -151 dB. Cable shall be three conductor (one shielded) rubber-jacketed black coiled cord, extendible to 1.8 m (6 feet). An integral press-to-talk switch shall be provided, connected in such manner that microphone circuit is isolated from switching circuits, and is "straight through" for operation of external voice-operated relay. Switch contacts shall be provided for operation of external relay, separate from microphone circuit. The Electro-Voice

Model 600EH (high impedance) is specified.

(For low impedance, insert the following:) The microphone shall have a nominal impedance value of 150 ohms. Output level shall be -55 dB (0 dB = 1 mW/10 dynes/cm²). EIA sensitivity shall be -148 dB. Cable shall be 4 conductor (2 shielded) rubber-jacketed, black coiled cord extendible to 1.8 m (6 feet). Microphone circuit shall be balanced with respect to ground. An integral press-to-talk switch shall be provided, connected in a manner such that microphone element is shorted in "off" position while microphone line to amplifier remains "open" for multiple microphone paging applications. Cable circuits and switch contacts shall be provided for operation of external relay separate and isolated from microphone circuits. The Electro-Voice Model 600EL (low impedance) is specified.

WARRANTY (Limited) —

Electro-Voice General Purpose Microphones are guaranteed without time limit against malfunction in the acoustic system due to defects in workmanship and materials. (Any active electronics incorporated in a microphone are guaranteed for three years from date of original purchase against such malfunction.) If such malfunction occurs, microphone will be repaired or replaced (at our option) without charge for materials or labor if delivered prepaid to the proper Electro-Voice service facility. Unit will be returned prepaid. Warranty does not cover finish, appearance items, cables, cable connectors, or switches and does not cover malfunction due to abuse or operation at other than specified conditions. Repair by other than Electro-Voice or its authorized service agencies will void this guarantee.

For repair information and service locations, please write: Service Dept., Electro-Voice, Inc., 600 Cecil Street, P.O. Box 186, Buchanan, MI 49107 (Phone: 616/695-6831) or Electro-Voice West, 8234 Doe Avenue, P.O. Box 3297, Visalia, CA 93277 (Phone: 209/625-1330,-1).

Electro-Voice also maintains complete facilities for non-warranty service of E-V products.

Specifications subject to change without notice.